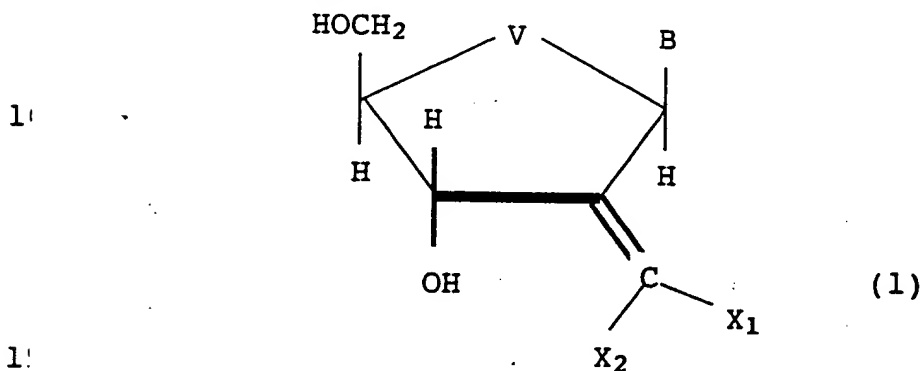


WHAT IS CLAIMED IS:

1. A method of treating a patient suffering from a neoplastic disease state comprising administering to said patient an effective antineoplastic amount of a 2'-halomethylidene derivative of the formula (1)

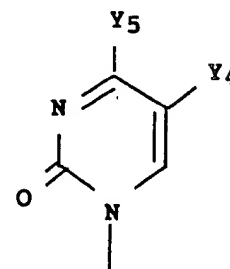
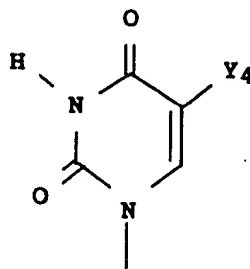
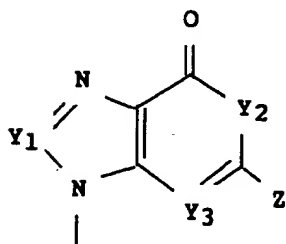


wherein

V is oxy, methylene, or thio,

X₁ and X₂ are each independently hydrogen or halogen, with the proviso that at least one of X₁ and X₂ is halogen,

B is a radical of the formula



wherein Y₁ is nitrogen, a CH group, a CCl group, a CBr group or a CNH₂ group; Y₂ and Y₃ are each independently nitrogen or a CH group; Y₄ is hydrogen, C₁-C₄ alkyl, C₁-C₄ alkoxy or halogen; Y₅ is amino or C₁-C₄ alkoxy; and Z is hydrogen, halogen, or NH₂;

or a pharmaceutically acceptable salt thereof in conjunctive therapy with an effective antineoplastic amount of a S-phase or M-phase specific agent.

5 2. A method according to Claim 1 wherein the 2'-halomethylidene derivative of the formula (1) is (E)-2'-deoxy-2'-fluoromethylidenecytidine.

3. A method according to Claim 1 wherein the S-phase
10 specific agent is cytarabine.

4. A method according to Claim 1 wherein the S-phase specific agent is fluorouracil.

15 5. A method according to Claim 1 wherein the M-phase specific agent is vinblastine.

6. A method according to Claim 1 wherein the neoplastic disease state is a leukemia.

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7. A method according to Claim 1 wherein the neoplastic disease state is a carcinoma.

8. A method according to Claim 2 wherein the S-phase
25 specific agent is cytarabine.

9. A method according to Claim 2 wherein the S-phase specific agent is fluorouracil.

30 10. A method according to Claim 2 wherein the M-phase specific agent is vinblastine.

11. A method according to Claim 2 wherein the neoplastic disease state is a leukemia.

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12. A method according to Claim 2 wherein the neoplastic disease state is a carcinoma.

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